

	L #	Hits	Search Text
1	L1	1494	cpg and (oligo or oligonucle\$8)
2	L6	5991	2 3
3	L7	28	1 and 6
4	L8	28	1 and 6
5	L9	8	ttccccagctgagccat
6	L10	0	9 and 6
7	L11	6	tccatgacgttctgacgtt
8	L12	0	11 and 6
9	L13	0	9 same alum
10	L14	0	9 and alum
11	L15	0	11 and alum
12	L16	3	11 and freund\$2
13	L17	1	9 and freund\$2
14	L18	3	16 17
15	L19	2	(9 11) and cfa
16	L20	0	(9 11) and lfa
17	L21	0	'Quill A'
18	L22	1	6013258.pn. and quill
19	L23	1	6013258.pn. and 'quill'
20	L24	0	6013258.pn. and 'quill a'
21	L25	6063	6 quill
22	L26	30	1 and 25
23	L27	2	26 not 8
24	<del>L28 1050</del>	<del>qs7 qs18 'qs 7' 'qs 18'</del>	<del></del>
25	<del>qs 2135</del>	<del>qs7 qs17 qs18 'qs 7' 'qs 17' 'qs 18'</del>	<del></del>
26	L30	329	qs21 'qs 21'
27	L31	2172 63	saponin quilla quill 29 30
28	L32	533	1 and 31
29	L34	2	1 and 30
30	L33	520	1 and 29
31	L35	1204	qs7 qs17 qs18 'qs 7' 'qs 17' 'qs 18'
32	L36	6216	30 35 saponin quilla quill
33	L37	30	1 and 36
34	L38	2	1 and 35
35	L39	15	35 and saponin
36	L40	37	qa7 qa17 qa18 'qa 7' 'qa 17' 'qa 18'
37	L41	35	qa21 'qa 21'
38	L42	3979	saponin quilla quill
39	L43	5374	30 35 40 41 42
40	L44	30	1 and 43
41	L45	26	1 and 42
42	L46	30	1 and 43
43	L47	0	1 and 41

6069242

L #	Hits	Search Text
44 L48	0	1 and 40
45 L49	4	43 same plasmid
46 L50	0	(40 35) same plasmid
47 L51	0	(30 41) same plasmid
48 L52	0	(30 41) same cpg
49 L53	2	(30 41) and cpg
50 L54	2	(35 40) and cpg

(FILE 'HOME' ENTERED AT 13:39:26 ON 20 JUL 2001)

FILE 'REGISTRY' ENTERED AT 13:39:34 ON 20 JUL 2001

L1 5 S TCCATGACGTTCTTGACGTT/SQEN  
L2 11 S TCCATGACGTTCTTGACGTT/SQSN

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:49:04 ON 20 JUL 2001

L3 41 S (L1 OR L2) AND ADJUVANT#  
L4 41 DUP REM L3 (0 DUPLICATES REMOVED)  
L5 41 S L1 AND ADJUVANT#  
L6 11 S L3 NOT PY>1999

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 14:40:31 ON 20 JUL 2001

L7 59 S L1 OR L2

FILE 'GENBANK' ENTERED AT 14:41:01 ON 20 JUL 2001

FILE 'REGISTRY' ENTERED AT 14:41:07 ON 20 JUL 2001

L8 0 S (L1 OR L2) AND ACGC/SQEN  
L9 0 S (L1 OR L2) AND ACGC

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 14:53:15 ON 20 JUL 2001

L10 1056 S 1826  
L11 26796 S SAPONIN# OR QS7 OR QS 7 OR QS18 OR QS 18 OR QS21 OR QS 21  
OR  
L12 0 S L10 AND L11  
L13 18 S L10 AND CPG  
L14 6 S L13 NOT PY>1999  
L15 2 DUP REM L14 (4 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 14:55:50 ON 20 JUL 2001

L16 0 S L1 OR L2  
L17 0 S (L1 OR L2) AND ADJUVANT#

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:05:16 ON 20 JUL 2001

L18 59 S L1 OR L2

=> s 118 and cpg

L19 54 L18 AND CPG

=> s 119 not py>1999

L20 19 L19 NOT PY>1999

=> dup rem l20

PROCESSING COMPLETED FOR L20

L21 19 DUP REM L20 (0 DUPLICATES REMOVED)

=> d his

(FILE 'HOME' ENTERED AT 12:22:38 ON 20 JUL 2001)

FILE 'GENBANK, MEDLINE, BIOSIS' ENTERED AT 12:22:50 ON 20 JUL 2001

L1 0 S TCTCCCAGCGTGCGCCAT/SQEN  
L2 0 S TCTCCCAGCGTGCGCCAT/SQSN

FILE 'GENBANK' ENTERED AT 12:24:33 ON 20 JUL 2001

L3 0 S TCTCCCAGCGTGCGCCAT/SQSN  
L4 0 S TCTCCCAGCGTGCGCCAT/SQEN

FILE 'REGISTRY' ENTERED AT 12:25:07 ON 20 JUL 2001

L5 5 S TCTCCCAGCGTGCGCCAT/SQEN  
L6 14 S TCTCCCAGCGTGCGCCAT/SQSN  
L7 5 S TCCATGACGTTCTGACGTT/SQEN  
L8 11 S TCCATGACGTTCTGACGTT/SQSN  
L9 25 S L6 OR L8

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:28:38 ON 20 JUL 2001

L10 26796 S SAPONIN# OR QS7 OR QS 7 OR QS18 OR QS 18 OR QS21 OR QS 21  
OR  
L11 8 S L9 AND L10  
L12 8 DUP REM L11 (0 DUPLICATES REMOVED)

=> d his

(FILE 'HOME' ENTERED AT 12:22:38 ON 20 JUL 2001)

FILE 'GENBANK, MEDLINE, BIOSIS' ENTERED AT 12:22:50 ON 20 JUL 2001

L1 0 S TCTCCCAGCGTGCGCCAT/SQEN  
L2 0 S TCTCCCAGCGTGCGCCAT/SQSN

FILE 'GENBANK' ENTERED AT 12:24:33 ON 20 JUL 2001

L3 0 S TCTCCCAGCGTGCGCCAT/SQSN  
L4 0 S TCTCCCAGCGTGCGCCAT/SQEN

FILE 'REGISTRY' ENTERED AT 12:25:07 ON 20 JUL 2001

L5 5 S TCTCCCAGCGTGCGCCAT/SQEN  
L6 14 S TCTCCCAGCGTGCGCCAT/SQSN  
L7 5 S TCCATGACGTTCTGACGTT/SQEN  
L8 11 S TCCATGACGTTCTGACGTT/SQSN  
L9 25 S L6 OR L8

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:28:38 ON 20 JUL 2001

L10 26796 S SAPONIN# OR QS7 OR QS 7 OR QS18 OR QS 18 OR QS21 OR QS 21  
OR  
L11 8 S L9 AND L10  
L12 8 DUP REM L11 (0 DUPLICATES REMOVED)  
L13 38 S L10 AND CPG  
L14 6 S L13 NOT PY>1999  
L15 2 DUP REM L14 (4 DUPLICATES REMOVED)  
L16 3 S L10 AND ISS  
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)  
L18 0 S L10 AND ISSN  
L19 3 S L10 AND ODN  
L20 1 DUP REM L19 (2 DUPLICATES REMOVED)  
L21 0 S L10 AND (UNMETHYL? (P) OLIGO?)  
L22 486 S (UNMETHYL? (P) OLIGO?)  
L23 759 S (IMMUNOSTIM? (P) OLIGO?)  
L24 1155 S L22 OR L23  
L25 23 S L10 AND L24  
L26 11 S L25 NOT PY>1999  
L27 5 DUP REM L26 (6 DUPLICATES REMOVED)  
L28 862 S (UNMETHYL? (P) NUCLE?)  
L29 0 S L10 AND L28  
L30 2528 S (UNMETHYL? (P) DNA)  
L31 0 S L10 AND L30  
L32 742 S L10 AND OLIGO?  
L33 640 S L32 NOT PY>1999  
L34 98 S L10 AND (OLIGO# OR OLIGONUCLE?)  
L35 62 S L34 NOT PY>1999  
L36 56 S L34 NOT PY>1998  
L37 44 S L34 AND IMMUNO?  
L38 62 S L34 NOT PY>1999  
L39 12 S L37 NOT PY>1999  
L40 8 DUP REM L39 (4 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 12:45:10 ON 20 JUL 2001

=>

AN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 142193	A1	19850522	EP 1984-201502	19841017
	R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AU 8434497	A1	19850426	AU 1984-34497	19841019
	AU 8434498	A1	19850426	AU 1984-34498	19841019
	JP 60172932	A2	19850906	JP 1984-221892	19841022
	JP 60172933	A2	19850906	JP 1984-221893	19841022
PRAI	NL 1983-3646		19831022		

AB **Immunogens** useful as **immunochem.** reagents and vaccines comprise antigens such as polypeptides, or antigenic determinants such as **oligonucleotides**, or their derivs., bonded to reactive groups such as NH<sub>2</sub> or CO<sub>2</sub>H of hydrophobic compds. such as phospholipid derivs., which are complexed with at least 1 type of glycoside having a hydrophilic and

a

hydrophobic part such as a **saponin**. The resulting **immunogenic** particles are optionally stabilized and(or) protected against digestive degrdn. Thus, an infectious bronchitis virus (IBV) protein **immunogen** was prepd. by addn. of 10 mg/mL soln. of infectious bronchitis virus (IBV) antigen to an activated carrier complex.

The IBV antigen was prepd. from avian IBV, purified and lyophilized. The carrier complex was prepd. by addn. of thiocholine in aq. EtOH (1:1) to

18

soln. of **saponin Quil A** resulting in mixed micelles, which were reacted with 5 mM N-succinimidyl 4-(N-maleimidomethyl)cyclohexane-1-carboxylate [64987-85-5]. In the **immunogen** the ratio of **Quil A** to protein was 1:4 by wt. The **immunogen** was visible by electron microscopy.

ST **immunogen immunochem** reagent vaccine

IT Polysaccharides, compounds

RL: BIOL (Biological study)

(aminophenylethylamine-activated, reaction products with **Quil A**, for **immunogens**)

IT Antigens



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No.	Doccode	Number of pages
1	SRNT	3

Total number of pages: 3

Remarks:

Order of re-scan issued on .....